

COMPOSTABLE MATERIALS HANDLING FACILITY PERMIT

1. Facility/Permit Number:

48-AA-0083

2. Name and Street Address of Facility:

**JEPSON PRAIRIE ORGANICS
COMPOSTING FACILITY**
6426 Hay Road
Vacaville, California 95687

3. Name & Mailing Address of
Operator:

**JEPSON PRAIRIE ORGANICS
COMPOSTING FACILITY**
6426 Hay Road
Vacaville, CA 95687
Contact: Mr. Greg Pryor

4. Name and Mailing Address of Owner:

**JEPSON PRAIRIE ORGANICS
COMPOSTING FACILITY**
6426 Hay Road
Vacaville, CA 95687

5. Specification:

a. Permitted Operations:

☒ **Composting Facility**

☐ Transfer Station
☐ Landfill Disposal Site
☐ Material Recovery Facility

☐ Processing Facility

☐ Transformation Facility
☐ Other:

b. Permitted Hours of Operations:

The composting operation will be open to the public from 8:00 AM to 4:00 PM, 7 days/week, 361 days per year (closed on 4 holidays: New Year's Day, Easter, Thanksgiving and Christmas Day). Arrangements can be made with commercial haulers to bring feedstock in earlier or later than general hours of 8:00 AM to 4:00 PM. Composting operations are allowed 7 days/week, 24 hours per day.

c. Permitted Tons per Operating Day:

Permitted tonnages will be up to 600 tons per day averaged over 7 day week with a peak of 750 tons per day, provided that the Facility is in full compliance with Section 17.B.

d. Permitted Traffic Volume:

500 Vehicles/Day
650 Vehicles/Day

Total combined traffic for both Jepson Prairie Organics Composting and Hay Road Landfill
Daily Peak traffic for both Jepson Prairie Organics Composting and Hay Road Landfill

e. Key Design Parameters (Detailed parameters are shown on site plans bearing LEA and CIWMB validations):

	Total	Disposal footprint	Transfer Station	MRF	Composting	Transformation
Permitted Area (in acres)	* 54	Separate Permit	N/A	N/A	* 54	N/A
Permitted Capacity			N/A	N/A	225, 000 yd ³	N/A
Max. Elevation (Ft. MSL)						
Max. Depth (Ft. MSL)						
Estimated Closure Date						

* Please refer to the September 2009 RCSI, page 11. Section C, Facility Layout and Figure 4 (01-888) for the description of the Land Treatment Unit (LTU) operated by ** Recology Hay Road within the composting permit boundary.

** Facility name is in the process of being changed from Norcal Waste Hay Road Systems Landfill to Recology Hay Road

The permit is granted solely to the operator named above, and is not transferable. Upon a change of operator, this permit is no longer valid. Further, upon a significant change in design or operation from the described herein, this permit is subject to revocation or suspension. The attached permit findings and conditions are integral parts of this permit and supersede the conditions of any previous issued solid waste facility permits.

6. Approval:

Birgitta Corsello, Director

Solano County Environmental Management Department

Approving Officer Signature

7. Enforcement Agency Name & Address:

**Solano County LEA
Resource Management Department
675 Texas Street, Suite 5500
Fairfield, CA 94533**

8. Received by CIWMB:

SEP 28 2008

9. CIWMB Concurrence Date:

10. Permit Review Due Date:

11. Permit issued Date:

COMPOSTABLE MATERIALS HANDLING FACILITY PERMIT

Facility/Permit Number:

48-AA-0083

12. Legal Description of Facility (attach map with RCSI):

The Facility occupies **54 acres of land** within the ** Recology Hay Road. The landfill is located in Township 5N, Range 1E, Mount Diablo Basin & Meridian; Solano County Assessor's Parcel Nos. 042-02-060 & 042-02-280.

13. Findings:

- a. This permit is consistent with the latest Solano County Integrated Waste Management Plan, revised November 1995, amended and approved by the CIWMB.
- b. The location of the facility is identified in the Solano Countywide Siting Element or Non-disposal Facility Element, pursuant to Public Resources Code (PRC), Section 50001(a).
- c. This permit is consistent with the standards adopted by the CIWMB, pursuant to PRC 44010.
- d. The design and operation of the facility is consistent with the State Minimum Standards for Composting as determined by the Enforcement Agency, pursuant to PRC 44009.
- e. Environmental Determination: The following documents have been prepared, processed and certified pursuant to the California Environmental Quality Act of 1970, as amended:
 - i) Environmental Assessment for an Amended Use Permit for the B&J Drop Box Landfill, Nichols and Berman, Environmental Planning and Resource Management, April 1983. Adopted by Solano County Planning Commission.
 - ii) Solano County Department of Environmental Management, Mitigated Negative Declaration for the B&J Drop Box Sanitary Landfill Project, August 13, 1991, State Clearinghouse Number 91083038. Adopted by Solano County Planning Commission.
 - iii) B&J Landfill Master Development Plan, Final Environmental Impact Report and Response Document, Brown and Caldwell, April 1993, State Clearinghouse Number 92063112. Adopted by Solano County Planning Commission.
 - iv) Solano County Department of Environmental Management B&J Landfill Modified Master Development Plan, Initial Study and Negative Declaration, 6 September 1995, State Clearinghouse Number 95093048. Adopted by Solano County Planning Commission.
 - v) Mitigated Negative Declaration, filed with the State Clearinghouse (SCH # 2001032035) on March 06, 2001, and adopted by the Solano County Department of Environmental Management on April 16, 2001.
 - vi) Final Subsequent Environmental Impact Report for the Norcal Waste Systems, Inc. Hay Road Landfill Project, March 2005. SCH No. 2004 032 138. Certified by the Solano County Board of Supervisors, June 07, 2005.
- f. This facility is designated as a solid waste site in the Land Use and Circulation Element of the Solano County General Plan and the site and surrounding land use is compatible with the facility operation (PRC Section 50000.5(a) & (b). The Land Use and Circulation Element was adopted on 19 December 1990 with subsequent amendments.
- g. The operator has made proper notification to, and received a written response of approval from, Travis Air Force Base and the Federal Aviation Administration in conformance with 27 CCR Sections 20270 and 21600(b)(3)(A).
- h. The permitted area of the Facility includes 5.4 acres allocated for the drying of biosolids from April 2010 until October 15, 2014. The timeframe is to allow for review of the operation and is not required as part of any mitigation.

14. Prohibitions:

- a. The following activities are prohibited:
 - (1) Scavenging
 - (2) Salvaging
 - (3) Off site migration of litter
 - (4) Discharge of waste off-site
 - (5) Standing water on feedstock, windrows areas
 - (6) Vector propagation or harborage
- b. New operations may not begin without prior submittal of amendments to the RCSI, appropriate permit revision and modifications, and written approvals are received from the LEA, CIWMB, RWQCB Central Valley Region, Yolo-Solano Air Quality Management District, Dixon Fire Department, or other appropriate agencies.
- c. The permittee is prohibited from accepting or bringing onto site any arsenic pressure treated wood or wood treated with lead based paint for use in composting.
- d. The use of amendments and/or additives for composting shall be allowed only if these materials do not render the finished compost product as hazardous.
- e. The operator shall not exceed the approved composting footprint of **54 acres** and the design capacity of **225,000 yd³** for materials undergoing the composting process.
- f. The Facility footprint is 54 acres as described in Figure 4 (01-888) of the September 2009 RCSI. No changes and/or expansions to the approved composting footprint will be made without the revision of the permit.
- g. As specified in Title 14 CCR, Chapter 3.1, Article 7, Section 17868.1, no compost products shall leave the premises without meeting the maximum acceptable metal concentration limits specified in Section 17868.2, and pathogen reduction requirements specified in Section 17868.3.
- h. Unless specifically permitted or allowed under Title 14, Division 7, Chapter 3.1 of the California Code of Regulations, the facility shall not accept the following materials:
 - (1) Designated wastes as defined in Title 23, Chapter 15, Section 2522 of the California Code of Regulations
 - (2) Municipal Solid Wastes
 - (3) Hot Ashes/Burning materials
 - (4) Medical wastes as defined in Section 25023.2 of the Health & Safety Code
 - (5) Hazardous wastes as defined in Section 25117 of the Health & Safety Code, including household hazardous waste

COMPOSTABLE MATERIALS HANDLING FACILITY PERMIT

Facility/Permit Number:

48-AA-0083

15. The following documents describe and/or restrict the operation of this facility:

Document	Date	Document	Date
<u>Report of Composting Site Information</u> for the Jepson Prairie Organic Composting Facility <u>Odor Impact Minimization Plan</u>	September 2009	Solano County Department of Environmental Management, <u>B&J Landfill Modified Master Development Plan, Initial Study and Negative Declaration</u> , State Clearing House Number 95093048. Adopted by Solano County Planning Commission.	September 1995
<u>Waste Discharge Requirements</u> Order No. R-5-2008-0188	December 2008	Solano County Department of Environmental Management, <u>B&J Landfill Initial Study and Mitigated Negative Declaration</u> , State Clearing House Number SCH # 2001032035, and MMRP. Adopted by Solano County Department of Environmental Management.	April 2001
<u>Yolo/Solano AQMD Title V Permit</u> Permit # F-01059-0 C-08-113 C-08-058 P-24-00(a) P-61-07 (a)(1) P-04-06 (a)(1) P-34-00 (a)	2002 December 2008 November 2008 June 2005 June 2008 December 2006 June 2006	<u>Hazardous Materials Management Plan and Emergency Response Plan</u> , EPA-ID CAD982042475	July 2004 Revision
Solano County Board of Supervisors, <u>General Plan, Land Use and Circulation Element</u> .	November 2008 Revision 1990	<u>Solano County Conditional Use Permit No U-91-28 Revision No 3</u>	June 07, 2005
<u>Sedimentation, Drainage and Erosion Control Plan for the B&J Drop Box Sanitary Landfill, Solano County, California</u> , Norcal Solid Waste Systems. <u>Dixon Fire District Letter</u> – approving the Fire Prevention Plan for operations at Jepson Prairie Organics Composting Facility	September 1991 October 2006	<u>Solano County Reclamation Plan No. RP-9104</u> , granted by the Solano County Planning Commission.	May 1993
<u>Solano County Land Use Conditional Use Permit No. U-91-28, revision # 3</u> . Granted by the Solano County Planning Commission <u>Solano County Planning Division letter to Environmental Health – Administrative Record for the 54 acres composting footprint</u>	June 2005 May 20, 2005	<u>Subsequent Environmental Impact Report for Hay Road Landfill (SCH # 2004032138)</u>	March 2005

COMPOSTABLE MATERIALS HANDLING FACILITY PERMIT

Facility/Permit Number:

48-AA-0083

16. Self Monitoring:

Results of all self-monitoring programs as described in the Report of Composting Site Information, will be reported as follows:

Program	Reporting Frequency	Agency Reported To
1) Calculate the types and quantities (in tons) of all feedstock entering the facility per day (including conversion factors used for any materials not weighed); the average tonnage per week (calculated over a 7 day period); and the quantity of finished compost (or other material) shipped off site per week including compost overs (in cubic yards) transferred to the adjacent landfill.	Monthly*	LEA **
2) The type, quantity and description of use of all amendments, additives, and bulking agents used in the composting operation.	Monthly *	LEA **
3) Log nuisances complaints including the time, source (name of company if commercial source) type of feedstock, nuisance condition (i.e. odorous, litter or municipal solid waste, other); final disposition of load (i.e. landfilled if odorous, rejected, incorporated within 24 hours if food waste feedstock)	Monthly *	LEA *
4) Log of special or unusual occurrences, i.e. accidents, injury, fires, explosions, hazardous waste incidents, unexpected shutdowns, etc and the operator's response to correct the problem.	Quarterly *	LEA **
5) Results of the hazardous waste load checking program, including quantities and types of hazardous wastes, medical wastes or otherwise prohibited wastes found in the waste stream and the disposition of these materials.	Quarterly *	LEA **
6) Report all complaints regarding the facility and the operator's actions taken in response to the complaint. Notify the LEA within one day of the action taken. Copies of all written complaints and each operator generated report for a verbal complaint regarding the Facility, and a summary of the operator's actions taken to resolve each complaint.	Within 24 hours or receipt *	LEA, CIWMB **
7) Report the number of vehicles entering the Facility per day of operation.	Quarterly*	LEA ** Public Works **
8) Analytical laboratory results of required metal concentrations and pathogen reduction monitoring program: Each report form shall clearly display the official name of the facility, the date the sample was taken, the date the analysis was completed, where the sample was collected (ID the windrow or Aerated Static Pile (ASP), and results of analysis.	Available on site	LEA **
9) Inventory of all compostable materials on site (in cubic yards) broken down by category submitted by January 25 and July 25 of each year, including: feedstock by type (i.e. food waste, green waste, other); amendment, additives and bulking agents; active ASP piles, windrows, Article 7 Materials and finished product.	Semi-Annual*	LEA *
10) Daily monitoring of weather data: temperature, wind speed and direction, weather conditions. Temperature monitoring and turning records for all windrows, active and stored compost. Temperature monitoring for all ASP piles.	Available on-site	LEA **
11) An employee training log with dates of training, course descriptions, etc, shall be maintained and kept current.	Available on site	LEA **
12) Submit a report on the progress of Aerated Static Pile (ECS) until the full conversion of existing compost process to the Aerated Static Pile (ECS) is completed.	Quarterly *	LEA **
(* = Reporting due by the 25th of the month following the end of the reporting period, OR else when due as specified by the controlling regulatory authority, submitted as monthly operations report.)		(** = Plus reporting to all other local, state and federal regulatory authority with jurisdiction at the facility as required by said agency.)

COMPOSTABLE MATERIALS HANDLING FACILITY PERMIT

Facility/Permit Number:

48-AA-0083

17. LEA Conditions:

(NOTE: LEA conditions listed here shall be in **addition** to conditions of other documents controlling operation of this facility, and do not take place of, or absolve from, compliance with such regulations or conditions)

A. Requirements:

1. The operator shall comply with all State Minimum Standards of Solid Waste Handling set forth in Title 14, Division 7, Chapter 3.1 (commencing with Section 17850) of the California Code of Regulations. The operator shall not operate this facility without possession of all required permit/regulatory approvals. The operator shall inspect the site at least once each day of operation to ensure compliance with all applicable standards/conditions/mitigation/permits/regulations.
2. The operator shall comply with all federal, state and local requirements and enactments including all mitigation and monitoring measures developed in accordance with any certified environmental document filed pursuant to Public Resources Code Section (PRC) 21081.6, and all administrative/enforcement orders of all regulatory agencies with jurisdiction at this facility. Those requirements include but are not limited to the Yolo-Solano Air Quality Air Management District, California Integrated Waste Management Board, Central Valley Regional Water Quality Control Board, Dixon Fire Department.

B. Provisions:

1. The operator shall maintain a copy of this Compostable Handling Materials Facility Permit, the Report of Composting Site Information, Odor Impact Minimization Plan, and other governing documents at the facility to be available during working hours to facility, enforcement agency, or board personnel. The operator shall maintain and make available for inspection by the enforcement agency and board all correspondence and reports provided to other regulatory agencies that have jurisdiction over the facility.
2. The Facility footprint shall consist of 54 acres to support the composting operations, as described in Figure 4 (01-888) of the September 2009 RCSI. No changes and/or expansions to the approved footprint will be made without the revision of the permit.
3. The composting operations are allowed 7 days/week, 24 hours/day. The composting facility will be open to the public and to commercial haulers from 8:00 AM to 4:00 PM, 7 days a week, 361 days per year (closed on 4 holidays). Arrangements are made with commercial haulers to bring feedstock in earlier or later than general hours of 8:00 AM to 4:00 PM.
4. The facility shall be limited to the receipt of daily tonnage limit as authorized by the Yolo/Solano Air Quality Management District. At no time shall the facility receive more than 600 tons per day averaged over a seven day week with a peak of 750 tons per day. All materials/waste received at the designated tipping location will count towards the daily CMHFP tonnage. All activities shall comply with facility Conditional Use Permit conditions.
5. Composting operations conducted at the Facility shall be maintained in compliance with the approved Dixon Fire Department Fire Safety Plan, pursuant to Public Resources Code Section 44151.
6. Operations on all areas of the facility used for the receipt, processing, storage, staging and production of compostable materials shall comply with the requirements of the Central Valley Regional Water Quality Control Board.
7. A legible sign shall be posted at the main entrance of the facility that indicates the name of the facility, the address, the name of the Contact person, and the phone number where the operator or designee can be reached in case of an emergency or to file a complaint about any nuisance condition originated at the site.
8. The number of vehicles that access the composting facility per day plus the number of vehicles that enter the adjacent landfill shall not exceed the permitted vehicles per day authorized in the current Hay Road Landfill's Solid Waste Facility Permit. **500 vpd**: Total vehicles per day (averaged over 7-day week) and a daily peak of **650** vehicles/day.
9. The operator shall be responsible for identifying the types of feedstock accepted for processing which includes green, agricultural and food materials consistent with Title 14 CCR, 17852.
10. The operator shall maintain a copy of each written complaint and each operator-generated report for a verbal complaint regarding this facility, and a summary of the operator's actions taken to resolve each complaint. All regulatory notices from other entities requiring corrective action shall be considered written complaints.
11. Additional clarifying information concerning the design and operation of the composting facility shall be furnished upon written request of the enforcement agency, or the CIWMB.
12. The operator shall maintain a log of special/unusual occurrences. This log shall include, but is not limited to, fires, explosions, the discharge and disposition of hazardous or unpermitted wastes, and significant injuries, accidents or property damage. Each log entry shall be accompanied by a summary of any actions taken by the operator to mitigate the occurrence. The log shall be available to site personnel and the EA during working hours.
13. Compost windrows and ASP piles shall be constructed and handled in such a manner that limits the attraction of animals, birds and vectors to the site. On-site litter shall not be allowed to accumulate so as to create nuisance condition. Compostable materials shall be handled in such a manner that does not create impacts to sensitive receptors. Odor complaints received shall be reported to the LEA in accordance to the current Odor Impact Minimization Plan.
14. The operator shall properly equip and maintain noise attenuation and spark arrestor devices (such as mufflers) on all combustion engines utilized at this facility. All equipment components shall be maintained in good mechanical condition and properly operated to prevent excessive noise levels and circumstances capable of starting accidental fires.

COMPOSTABLE MATERIALS HANDLING FACILITY PERMIT

Facility/Permit Number:

48-AA-0083

17. LEA Conditions:

Provisions (Continued)

15. Feedstock having biological, chemical or other physical properties which could cause health and safety or operational problems without special handling; construction/demolition/municipal solid waste; infectious waste; dead animals; full or empty pesticide containers; are prohibited from being accepted at this facility. The LEA maintains the right to restrict or prohibit any material which by the result of moisture or any other characteristic prevents or inhibits proper handling of the material. Proper handling includes, but is not limited to the handling/processing of the compostable material to limit or prevent offsite odor impacts.
16. Food waste feedstock shall be processed and placed in windrows/ASP piles or transported off site within 24 hours. Additional material shall not be accepted into facility until such time as backlogged material is removed or placed in windrows/ASP piles.
17. All incoming feedstock shall be tipped and stored only on a pad of impervious surface.
18. The operator shall maintain a current list of available back-up equipment in the event of equipment failure.
19. All odor controlling devices shall be maintained in working order, as specified in the most current Odor Impact Minimization Plan.
20. Grinding and screening operations shall not occur during high wind conditions and be conducted in a manner that will not create off-site impacts.
21. Only non-hazardous odor neutralizers shall be used for odor control, as specified in the most current Odor Impact Minimization Plan. A copy of the current Material Safety Data Sheet (MSDS) shall be made available for review.
22. Odor Complaint response shall be initiated as depicted in the approved "Odor Impact Minimization Plan."
23. All piles of compostable material that are stored on site shall be clearly identified and labeled.
24. The operations shall include the following onsite activities:
 - (a) Maintaining windrows in an aerobic condition
 - (b) Maintaining the appropriate windrow moisture content
 - (c) Maintaining adequate windrow temperatures throughout pathogen reduction period
 - (d) Controlling dust through routine application of water
 - (e) Providing personal protection equipment to personnel in close contact with composting materials
25. The permitted operator of the ** Recology Hay Road shall be responsible for compliance with the State Minimum Standards related to the 5.4 acre Land Treatment Unit within the compost permitted boundary.
26. This permit supersedes the solid waste facility permit (CHMFP) 48-AA-0083 issued 07-2005.

C. Specifications:

1. The LEA reserves the right to suspend and/or modify the receipt of feedstock materials and handling operations at this facility when deemed necessary due to any emergency, potential health hazard, and/or public nuisance.
2. The facility shall not be operated so as to cause public nuisance as determined by the EA.
3. A Compliance Officer (CO) shall be designated as specified in Conditional Use Permit (CUP) No 70 to oversee the facility materials tracking system from inbound feedstock through final product stages to prevent or eliminate any nuisance conditions including but not limited to odors, litter, dust, fires, vectors, etc. The CO or designee shall monitor the load checking of inbound feedstock, the processing and the storage of all feedstock and compost, monitor and record wind and weather conditions throughout the hours of operation, noting times of day conditions, changes and modifications to site operations to prevent nuisance conditions, the status of all verbal and written complaints, oversee and be responsible for keeping the EA informed of any new techniques, products used or changes in operation to prevent or eliminate nuisance conditions, and be responsible for providing and maintaining all records required by the EA to help identify any nuisance conditions at the site.
4. The LEA reserves the right to require additional measures as needed to adequately control nuisances resulting from composting operations.
5. This facility shall comply with the Solano County Countywide Integrated Waste Management Plan and any future amendments or revisions to this plan.
6. No expansion of the facility's operation shall commence until additional environmental review is conducted and all required permits are obtained.
7. This permit is subject to review by the LEA and may be suspended, revoked or modified at any time for sufficient cause after hearing by the LEA Hearing Panel.

COMPOSTABLE MATERIALS HANDLING FACILITY PERMIT

Facility/Permit Number:

48-AA-0083

8. The operator shall submit an application for revision to this Compostable Handling Materials Facility Permit for any proposed significant change in design or operation at least 180 days prior to the expected implementation of the design or operation as required by PRC Section 44004(b).
9. Under no circumstances shall the operator make changes in operations without written approval of Solano County LEA. Any significant change as determined by the LEA will require a revision of this permit with concurrence by the CIWMB.
10. All design and operational features in the RCSI shall be considered EA conditions under this section of the permit, unless otherwise contradicted by this permit document or indicated by the EA in a written document provided to the operator.
11. This facility is allowed to use up to 5.4 acres of the compost footprint located immediately south of DM-9 for the drying of biosolids (April 15 to October 15) in a Land Treatment Unit (LTU), from the date this permit is issued until October 15, 2014. At the end of this period, the operation will be evaluated to ensure it has not created a nuisance or environmental contamination. Based upon evaluation, the operation may be allowed to continue or be required to cease and be clean closed as per Waste Discharge Requirement Order No. R-5-2008-0188, "The LTU will be clean closed at the end of its operating life in accordance with Title 27 CCR Section 21420". Article 7 materials will be staged in this area pending accepted analytical results of the testing.

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